

Notes on Tortricidae from the Malay Archipelago with description of a new species (Lepid.)

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The following is chiefly a list of Tortricidae in the collection of the Leiden Museum and in my own collection (indicated respectively by "C.L.M." and "C.D."), which were not recorded by me before. Although the former has been studied once by Meyrick and many new species described (Zool. Med. Mus. Leiden, v. 6, pp. 145—245, 1921, v. 7, p. 80—90, 1922), a complete account of the collection for the use of faunistic research has not been made yet. 2 new synonyms are recorded; the ♀ of *Ulodemis pangerango* Diak. and 1 new species from the Christmas Island are described.

Zacorisca stephanitis Meyr., 1910.

W. Java, Mt. Gedeh, 4000 ft, 1887, 1888, 1893, 1894 (M. C. Piepers), 5 ♀ (C.L.M.).

Isotenes miserana (Walk.), 1863.

W. Java, Preanger, 5000 ft, 1894 (Sijthoff) (C.L.M.) (Tjibodas, 1400 m, 31.XII.1937 (Toxopeus) (C.D.). W. Sumatra, Fort de Kock, March, May, June, July, Aug., Dec. 1921, 1922, 1924, 1925, 1926 (E. Jacobson). Celebes, Lokka (C.L.M.). 8 ♂, 17 ♀.

Isotenes crobylota (Meyr.), 1910.

New Guinea, Hunsteinspitze 1380 m, Kaiserin Augustafluss Expedition (Bürgers S.G.). 1 ♂ (C.D.).

Adoxophyes privatana (Walk.), 1863.

W. Java, Batavia 1891, Buitenzorg 1892, 1894 (Leefmans 1919; van Heurn 1921, on Ricinus), Sindanglaja 1882 (C.L.M.). Tjibodas, 31.XII.1937 (Toxopeus), Bandoeng 1925 (author) (C.D.). W. Sumatra, Tarotoeng, 1898 (van Hasselt), Fort de Kock, March, May, Nov., Dec. 1921, 1922, 1925 (E. Jacobson) (C.L.M.). Celebes (van Gelder) (C.L.M.). 18 ♂, 21 ♀.

Adoxophyes perstricta Meyr., 1928.

W. Java, Batavia; Buitenzorg 1887, 1892 (on Ricinus, van Heurn, 1921); Tjiapoos, XII. 1919, on tea shrub. C. Java, Ambarawa (Ludeking) (C.L.M.). 8 ♂, 9 ♀.

Adoxophyes nebrodes Meyr., 1920.

New Guinea, Sekroe (Schädler) (C.L.M.). 1 ♀.

Adoxophyes melichroa Lower, 1899.

Java (author) (C.D.). 1 ♂.

Procalyptis liberatrix nov. spec.

♂ 15 mm. Head, thorax and palpi light ochreous, the latter rather short. Antennae somewhat darker ochreous, shortly ciliated, slightly ringed dark brown along upper side. Abdomen greyish-ochreous, anal tuft large, shining ochreous. Forewing rather elongate-truncate, costal fold absent, costa gradually arched from base to $\frac{3}{4}$, straight posteriorly, termen little oblique. Pale ochreous, markings orange-fuscous, partially slightly suffused with dark brown, especially along costa. Edge of basal patch indicated by an undulate line, partially suffused ferruginous-brown, running very obliquely outwards beyond fold, then inwards towards base of dorsum; a small oblique fuscous streak in middle of basal patch, transverse fascia oblique, moderately broad and slightly suffused fuscous along costal $\frac{1}{3}$, narrowed and almost vertical in disc, abruptly broadly dilated below middle, but indistinct, its anterior edge straight and vertical, indented, posterior edge very oblique, undulate, to dorsum just before tornus. Costal patch erect, moderately broad, slightly oblique, connected with transverse fascia along its lower edge; a transverse streak along apex and termen, not reaching tornus. Cilia shining golden ochreous. Hindwing greyish-ochreous, veins tinged darker; cilia shining ochreous.

♀ 16—19 mm. Head and thorax ochreous fuscous. Antennae somewhat darker, greyish. Palpi ochreous-fuscous, moderately long, somewhat hooked, medial joint broadly dilated towards apex, terminal joint moderate, drooping. Forewing elongate-truncate, moderately broad, costa gradually curved from base to $\frac{1}{3}$, straight posteriorly, termen vertical above, broadly rounded beneath. Ochreous-fuscous, shining, sometimes darker, slightly suffused with chocolate-brownish or greyish-lilac. Markings as in ♂, but mostly very indistinct (in one specimen suffused with dark brown), their edges dissolved in short orange-ferruginous transverse streaks, brownish on costa. Cilia shining brownish-golden. Hindwing fuscous-brown, paler on base, cilia shining brownish-golden.

Christmas Island, 1939—40, No. 156 and 157 (Dr. C. A. Gibson-Hill) 1 ♂, 10 ♀. Holotype and allotype will be preserved in the British Museum, paratypes in Selangor Museum and in the author's collection.

This is the first species of *Procalyptis* which becomes known outside the Australian region. The genus is, however, closely related to *Adoxophyes* Meyr., which is typical for the Indo-Malayan fauna. The present species reminds very much of an *Adoxophyes*, but the position of vein 3 in hindwing and the absence of costal fold in ♂ show its true nature clearly enough.

Epagoge retractana (Walk.), 1863, subsp. **invalidana** (Walk.), 1863.

W. Java, Batavia, 1891, Buitenzorg 1878, 1898 (C.L.M.). Pa-
roengkoeda, 24-VII-1937 (Westenberg) (C.D.). C. Java, Tela-

wa, teak forest, 16.IV.1938, 14.V.1938 (Kalshoven) (C.D.). S. Sumatra, Lampongs, Wai Lima XI-XII.1921 (Karny) (C.L.M.). W. Sumatra, Fort de Kock, 920 m, Jan.-June, Aug., Oct., 1920-'23 (E. Jacobson) (C.L.M.). 34 ♂, 8 ♀.

Epagoge pusillana (Walk.), 1863.

S. Sumatra. Lampongs, Wai Lima, XI-XII, 1921 (Karny & Siebers). W. Sumatra, Fort de Kock, 1920 m., Jan., May, June, Oct. 1921-'23 (E. Jacobson) (C.L.M.) 6 ♂, 1 ♀.

Syn. nov. exalbescens Meyr., (*Capua exalbescens* Meyr., Zool. Med. Mus. Leid., v. 7, p. 81, 1922). This is nothing else but a faded specimen of the foregoing species. The unique specimen, a ♂, is labelled: type, Java, Tegal, Sempar, 3000 ft (Lucassen). (C.L.M.).

Epagoge affiniana (Walk.), 1863.

W. Java, Megamendoeng, 1880, Preanger, 1550 ft, 1887, Buitenzorg 1886 (C.L.M.). Paroengkoeda, 24—30. VII.1937, Sindanglaja, 15—30.IX.1938 (Westenberg). (C.D.) E. Java, Mt. Ardjoeno (Hekmeyer). Mt. Tengger, 200 ft. 1894. W. Sumatra, Fort de Kock, 920 m., Jan., March, July, Dec. 1921—22, 1924, 1926 (E. Jacobson) (C.L.M.) 8 ♂, 12 ♀.

Epagoge vulgaris (Meyr.), 1921.

W. Java, Preanger, 5000 ft (Sijthoff) type, "M 55". (C.L.M.) 2 ♂, 4 ♀.

Syn. nov. saltuaria Meyr. (*Capua saltuaria* Meyr., Zool. Med. Mus. Leid. v. 7, p. 81, 1922). The unique specimen, type, labelled: W. Java, Preanger, 5000 ft (Sythoff), is a male specimen of the foregoing species. (C.L.M.).

Epagoge pigra (Meyr.), 1921.

W. Java, Preanger, 5000 ft (Sijthoff), type ♂. Preanger 1500—1800 m, 1885 (Anthony). Tegal, Simpar, 3000 ft (Lucassen) (C.L.M.). 2 ♂, 4 ♀.

Epagoge cirrhanthes (Meyr.), 1921.

Celebes, Lokka, type ♀, unique. Very distinct by small triangular costal patch.

Epagoge harmonia (Meyr.), 1908.

Sikkim (Elwes), (C.L.M.). 1 ♀.

Homona coffearia (Nietn.), 1861.

W. Java, Buitenzorg 1919, Sindanglaja 15—30.IX.1938 (Westenberg) (C.D.). W. Sumatra, Fort de Kock, 920 m, May, June, Sept., Oct. 1921, 1923 (E. Jacobson) (C.L.M.). 24 ♂. 2 ♀.

Homona picrostacta Meyr., 1921.

W. Java, Pekalongan (van Deventer), type ♂. Batavia 1887, 1894. E. Java, Toeban (C.M.L.) 8 ♂.

Homona aestivana (Walk.), 1866.

N. W. New Guinea, Prahoewenbivak, Nov. 1920 (W. C. van Heurn). (C.L.M.). 1 ♀.

Homona mermerodes Meyr. 1910.

Sumatra, Tapanoei, Padang Sedempoean (J. and N. van

Hasselt). N. W. New Guinea, Prahoewenbivak, Nov. 1920 (W. C. van Heurn). (C.L.M.). 1 ♂, 1 ♀.

Cacoecia micaceana (Walk.), 1863.

W. Java, Buitenzorg, 1892, 1893. Java (Reinwardt). Sindanglaja 1882 (C.L.M.) Paroengkoeda, 24—30.VI.1937 (Westenberg) (C.D.) E. Java, Pringidan, 1100 ft (Coll. Snellen & Piepers). W. Sumatra, Fort de Kock, 920 m. Jan.-March, May-June, Aug.-Oct.-Dec. 1921—1922 (E. Jacobson) (C.L.M.) ; *ibid.*, 1924 (C.D.) 18 ♂, 9 ♀.

Cacoecia micaceana (Walk.) 1863, var. *machlopis* (Meyr.) 1912.

W. Java, Preanger, 5000 ft (Sijthoff) ; Mt. Gedeh, 1887, 1890. (C.L.M.). 3 ♀.

Cacoecia atrolucens Diak. 1941.

W. Java, Sindanglaja 1881 ; Preanger, 5000 ft, 1894 (Sijthoff) ; Tjinjirean, 1700 m, 1909 (H. W. van der Weele) ; Buitenzorg, VIII, 1919 (Roepke) (C.L.M.). Tjibodas, 31.XII.1937 ; 2.I.1938 (Toxopeus), Sindanglaja, 15—30.IX.1938 (Westenberg) (C.D.) 7 ♂, 2 ♀.

Cacoecia seditiosa Meyr., 1921.

W. Java, Buitenzorg, 1894 : type ♀. Preanger 1886, Sindanglaja 1882. (C.L.M.). Sindanglaja 15—30.IX.1938 (Westenberg) (C.D.). E. Java, Mt. Ardjoeno (Hekmeyer). (C.L.M.). 8 ♂, 1 ♀.

Cacoecia tabescens Meyr., 1921.

W. Java, Batavia, 1891 : type ♂ ; 1888, 1894. Buitenzorg 1892 ; "on maizie" ; on Ricinus, Buitenzorg 1921 (W. C. van Heurn) (C.L.M.). E. Java, Rembang, 21.III.1938, Telawa, 15.III.1938 (Kalshoven, on Lantana) (C.D.). 2 ♂, 12 ♀.

Cacoecia difficilis Meyr., 1928.

W. Java, Buitenzorg, 1886, Batavia, 1891, (C.L.M.). 2 ♂.

Cacoecia spilotoma Meyr., 1921.

N. Celebes, Bonthain : type ♂. Minahassa (van den Bergh). E. Celebes, Tombugu. (C.L.M.). 4 ♂.

Ulodemis trigrapha Meyr., 1907.

W. Sumatra, Fort de Kock, 920 m. Oct. 1922, on Schima (E. Jacobson). (C.L.M.). 1 ♀.

Ulodemis pullatana (Snell.), 1901.

W. Java, Preanger (Sijthoff) : type ♂. Tjinjirean, 1700 m 1909 (H. W. van der Weele) (Anthony) (C.L.M.). Tjibodas, 29.XII.1937 (Toxopeus) (C.D.) 5 ♂, 8 ♀.

Ulodemis pangerango Diak. 1941.

♀ 27 mm. Head, palpi and thorax unicolorous dull brownish-fuscous. Abdomen greyish-ochreous, light ochreous towards apex. Forewing broad, with costa strongly, but gradually arched from base to beyond middle, straight posteriorly, termen rather straight, little oblique, dorsum convex before middle. Brownish-fuscous, with slight orange-golden gloss ; outwardly oblique gradually

curved row of small brown dots between veins from below $\frac{3}{5}$ of costa to tornus, short dark brown streaks along dorsum. Cilia greyish fuscous, somewhat shining. Hindwing and cilia pale ochreous, with a silky gloss. Fore legs brownish-fuscous, middle legs lighter, hind legs pale ochreous.

W. Java, Patoehawattee, 1750 m, 13.IV.1936 (Dr. L. J. Toxopeus). 1 specimen (C.D.). Resembling ♀ of *pullatana* Snell., but very distinct by colouring and size.

Syndemis serpentiana (Walk.). 1863.

W. Java, Preanger, 5000 ft (Sijthoff). W. Sumatra, Fort de Kock, 1925 (E. Jacobson). (C.L.M.). 2 ♂.

Diactenis haplozona Meyr., 1921.

W. Java, Preanger, 5000 ft (Sijthoff): type ♂ (C.L.M.).

Protopterna citrophanes Meyr., 1921.

W. Java, Preanger, 5000 ft (Anthony): type ♀, unique (C.L.M.).

Schoenotenes paraptera Meyr., 1910.

W. Java, Preanger, 5000 ft (Sijthoff) (C.L.M.). 2 ♂, 2 ♀.

Schoenotenes synchora Meyr., 1908.

W. Java, Preanger, 5000 ft (Sijthoff) (C.L.M.). 1 ♂.

Argyrotoza dumigera Meyr., 1921.

W. Java, Preanger, 5000 ft (Sijthoff): type ♀, unique (C.L.M.).

Spatalistis cyanoxantha Meyr., 1907.

W. Java, Preanger, 5000 ft (Sijthoff), 1 ♀ (C.L.M.).

Spatalistis translineata Meyr., 1921.

W. Java, Preanger, 5000 ft (Anthony, Sijthoff) (C.L.M.) 4 ♀. The type specimen is not indicated.

Paratona dorcas Meyr., 1907.

W. Java, Tegal (Lucassen) (C.L.M.) 1 ♂.

Eboda obstinata Meyr., 1908.

W. Java, Batavia, 1882, 1885, 1886. (C.L.M.) 4 ♀.

Eboda celligera Meyr., 1918.

W. Java, Batavia, 1886. Buitenzorg (C.L.M.). 1 ♂, 1 ♀.

Peronea enitescens Meyr., 1912.

W. Java, Preanger, 5000 ft. (Sijthoff). (C.L.M.) 1 ♀.

Peronea dictylodes Meyr., 1907.

W. Sumatra, Fort de Kock, 920 m, May 1922 (E. Jacobson). (C.L.M.). 1 ♂.

Phricanthes flexilineana Walk., 1863.

W. Java, Buitenzorg, 1892 (C.L.M.) 2 ♀.

Kuala Lumpur, January 1946 — Amsterdam, August 1946.